Applied Acoustics **26** (1989) 319–321

CONTENTS OF VOLUME 26

Number 1

Determination of Propagation Paths of Vibration in the Floor of a Control Room Using Vibration Intensity Measurements 1
E. SORAINEN & E. RYTKÖNEN (Finland)

Brittle Fracture of Samples Cycled in the Ultrasonic Test System. Part I—A Basic Model 9
P. BAJONS, F. EMBACHER & H. PETERLIK (Austria)

An Approximately Extended Traffic Noise Prediction Formula Based on an Exponentially Distributed Vehicles Model 25
WU SHUOXIAN (People's Republic of China)

Axisymmetrical Acoustic Vibrations of Simply-Supported Cylindrical Shells . 33
MAZEN I. QAISI (Jordan)

Study of Variation in Ultrasonic Propagation Parameters of Bone, *in Vitro*, by X-Ray Diffraction Technique 45
SANJAY YADAV, SEEMA SINGHAL, V. R. SINGH & K. C. NAGPAL (India)

The Effect of Wall Linings on the Sound Insulation Between Dwellings . . 57
L. C. FOTHERGILL & R. S. ALPHEY (UK)

Technical Notes

Transverse Vibrations of a Tapered Beam Embedded in a Non-homogeneous Winkler Foundation 67
C. P. FILIPICH, M. J. SONENBLUM & E. A. GIL (Argentina)

Interaction of Airflow Volume and Airborne Sound Insulation of the Joint . 73
JOZEF ZAJAC (Czechoslovakia)

Letter to the Guest Editor, R. J. Orlowski 81

Calendar 83

Number 2

Brittle Fracture of Samples Cycled in the Ultrasonic Test System. Part II—Experimental Results 85
P. BAJONS & H. PETERLIK (Austria)

Applied Acoustics (**26**) (1989)—© 1989 Elsevier Science Publishers Ltd, England. Printed in Great Britain

Model of Energy Calculation for Acoustic Analysis of Closed Rooms . . 99
A. GIMÉNEZ & A. MARIN (Spain)

Optimisation of Variable Lateral Energy for Spatial Impression in a Hall . . 113
R. P. WILLIAMSON (Australia)

Rail Transportation Noise With and Without a Barrier 135
R. MAKAREWICZ, J. JARZECKI, K. BEREZOWSKA-APOLINARSKA & A. PREIS (Poland)

Technical Notes

Transverse Vibrations of Continuous Rectangular Plates: A Comparison of Results 149
L. ERCOLI, P. A. A. LAURA & H. C. SANZI (Argentina)

The Linking of AUTOCAD Drafting Package with a Ray-Tracing Program . 155
WU SHUOXIAN (People's Republic of China)

Calendar 163

Number 3

Simulation of the Piano as a Musical Source for the Calculation of Sound Levels in Closed Rooms 165
A. GIMÉNEZ & A. MARÍN (Spain)

A Different Type of Resonator for Acoustics 175
ULF R. KRISTIANSEN (Norway)

Structure-borne Sound on a Smooth Tyre 181
W. KROPP (Germany)

The Effect of Background Noise on Noise Source Location by the Sound Intensity Technique 193
N. TANDON (India)

Free Field Surface Impedance Measurements of Sound-absorbing Materials with Surface Coatings 199
J. F. ALLARD, C. DEPOLLIER & P. GUIGNOUARD (France)

An Analytical Study of a Simplified Method for Measuring Airborne Sound Insulation in Dwellings 209
ZHANG XIAOYUAN & WANG JIQING (People's Republic of China)

Deformation of Frequency Modulated (FM) Signals Propagating in a Room . 217
E. OZIMEK & L. RUTKOWSKI (Poland)

Short Communications

Direct Measurement of Reverberation Time with a Sound Level Meter . . 231
L. W. BEAN (UK)

Outdoor Sound Level Variations Due to Fluctuating Meteorological Parameters 235
BENGT HALLBERG, CONNY LARSSON & SVEN ISRAELSSON (Sweden)

Calendar 241

Number 4

Analytical and Experimental Investigation on Vibrating Frames Carrying Concentrated Masses 243
C. P. FILIPICH, L. ERCOLI, P. A. A. LAURA, R. E. ROSSI & R. HERRERA (Argentina)

A Hybrid Experimental–Finite Element Method for Vibration Analysis of Structures 251
K. Y. LAM, S. T. CHOW & K. M. LIEW (Singapore)

Practical Calculation of Floor Impact Sound by Impedance Method . . . 263
SHO KIMURA & KATSUO INOUE (Japan)

Technical Notes

Effect of Orientation and Directional Factors of Loudspeakers on the Acoustic Feedback 293
MOHAMED A. EL-MESSIRY (Egypt)

Noise and the Docklands Light Railway 305
B. SHIELD, J. ROBERTS & M. VUILLERMOZ (UK)

Calendar 317